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THE ECCO2 HIGH RESOLUTION GLOBAL-OCEAN AND SEA-ICE DATA SYNTHESIS

The Estimating the Circulation and Climate of the Ocean, Phase II (ECCO2) project aims to produce increasingly accurate global-ocean and sea-ice data syntheses at resolutions that start to resolve ocean eddies and other narrow current systems, which transport heat, carbon, and other properties within the ocean. ECCO2 data syntheses are obtained by least squares fit of a global full-depth-ocean and sea-ice configuration of the Massachusetts Institute of Technology general circulation model (MITgcm) to the available satellite and in-situ data. A first ECCO2 data synthesis has been obtained using a Green's Function approach. This presentation provides a brief overview of this ocean and sea-ice data synthesis, of the estimation methodology, of the solution characteristics, and of some first science applications.

<http://ecco2.org/>

Oral presentation

Presentation is given by student: No

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